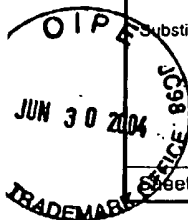


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|---|------------------------|--------------------------|-------------------------|
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| INFORMATION DISCLOSURE STATEMENT BY APPLICANT (use as many sheets as necessary) | | Application Number | 09/976,001 |
| | | Filing Date | October 15, 2001 |
| | | First Named Inventor | T. UCHIDA et al. |
| | | Art Unit | 1765 |
| | | Examiner Name | Lynette T. Umez Eronini |
| Sheet 1 of 1 | Attorney Docket Number | 566.39787CX1 | |

| U.S. PATENT DOCUMENTS | | | | | | C/435 / Subcl435 |
|--------------------------------|-----------------------|--|--------------|--------------------------------|--|---|
| Examiner Initials ¹ | Cite No. ¹ | Document Number | | Publication Date MM-DD-YYYY | Name of Patentee or Applicant of Cited Document | Pages, Columns, Lines, Where Relevant Passages or Relevant Figures Appear |
| | | Number-Kind Code ² (if known) | | | | |
| LJME | | US- | 4,537,654 | 08-1985 | BERENZ et al. | 438/176 |
| LJME | | US- | 4,969,381 | 11-1990 | PRIGGE et al. | 438/643 |
| LJME | | US- | 5,434,107 | 07-1995 | PARANJPE | 438/1765 |
| LJME | | US- | 5,691,219 | 11-1997 | KAWAKUBO et al. | 438/293 |
| LJME | | US- | 5,770,103 | 08-1998 | WANG et al. | 252/179.1 |
| LJME | | US- | 5,878,490 | 03-1999 | RONAY | 106/15 |
| LJME | | US- | 5,954,997 | 09-1999 | KAUFMAN et al. | 252/179.1 |
| LJME | | US- | 5,981,394 | 11-1999 | OHASHI et al. | 438/642 |
| LJME | | US- | 6,208,756-B1 | 03-2001 | CHOPRA et al. | 451/28 |
| | | US- | | | | |
| | | US- | | | | |
| | | US- | | | | |

| FOREIGN PATENT DOCUMENTS | | | | | | |
|-----------------------------------|--------------------------|---|--------------------------------|--|---|----------------|
| Examiner Initials ¹ | Cite No. ¹ | Foreign Patent Document | Publication Date MM-DD-YYYY | Name of Patentee or Applicant of Cited Document | Pages, Columns, Lines, Where Relevant Passages or Relevant Figures Appear | T ⁶ |
| | | Country Code ³ -Number ⁴ -Kind Code ⁵ (if known) | | | | |
| LJME | | JP 08-083780 | 03-26-1998 | TOSHIDA CORP | | ABS |
| LJME | | KR 2001-0053167 | 08-25-2001 | | | |
| LJME | | WO 00/00561 | 01-06-2000 | CABOT CORPORATION | | |
| | | | | | | |
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| | | | | | | |
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| OTHER PRIOR ART—NON PATENT LITERATURE DOCUMENTS | | | | |
|---|-----------------------|--|--|--|
| Examiner Initials ¹ | Cite No. ¹ | Include name of the author (in CAPITAL LETTERS), title of the article (when appropriate), title of the item (book, magazine, journal, serial, symposium, catalog, etc.), date, page(s), volume-issue number(s), publisher, city and/or country where published | | |
| | | | | |
| LJME | | Y. HAYASHI et al., "A New Abrasive-Free, Chemical-Mechanical-Polishing for Aluminum Metallization of ULSI Devices", International Electron Devices Meeting Technical Digest, 1992, pp. 976-978 | | |
| LJME | | LUO et al., Chemical-Mechanical Polishing of Copper in Acidic Media, February 22-23, 1996, 1996 CMP-MIC Conference 1996 ISMIC - 100P/96/0145, pages 145-151. | | |

| | | | |
|--------------------|-------------------------|-----------------|-----------|
| Examiner Signature | Lynette T. Umez-Eronini | Date Considered | 7/21/2004 |
|--------------------|-------------------------|-----------------|-----------|

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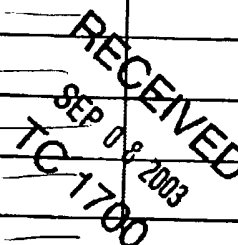
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|---|--|---------------------------------|--------------------------|
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| INFORMATION DISCLOSURE STATEMENT BY APPLICANT (Use several sheets if necessary) | | APPLICANT T. Uchida, et al. | |
| | | FILING DATE October 15, 2001 | GROUP 1765 |



U.S. PATENT DOCUMENTS

| Examiner Initial | Document Number | Date | Name | Class | Subclass | Filing Date |
|------------------|-----------------|------------|---------------------|-------|----------|-------------|
| AA | 6,117,783 | 9/12/2000 | Small, et al. | | | |
| AB | 6,313,039 | 11/6/2001 | Small, et al. | | | |
| AC | 5,575,885 | 11/19/1996 | Hirabayashi, et al. | | | |
| AD | 4,954,142 | 9/4/1990 | Carr, et al. | | | |
| AE | 5,084,071 | 1/28/1992 | Nenadic, et al. | | | |



FOREIGN PATENT DOCUMENTS

| Examiner Initial | Document Number | Date | Country | Class | Subclass | Translation/Abstracts | |
|------------------|-----------------|------------|---------|-------|----------|-----------------------|----|
| | | | | | | Yes | No |
| AF | 0 846 742 | 6/10/1998 | EP | | | | |
| AG | 2000-501771 | 2/15/2000 | Japan | | | X | |
| AH | 7-233485 | 9/5/1995 | Japan | | | X | |
| AI | 2-278822 | 11/15/1990 | Japan | | | X | |
| AJ | 10-163141 | 6/19/1998 | Japan | | | X | |
| AK | 0 845 512 | 6/3/1998 | EP | | | | |
| AL | 6-88258 | 3/29/1994 | Japan | | | X | |

OTHER DOCUMENTS (Including Author, Title, Date, Pertinent Pages, Etc.)

| | |
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| AM | |
| Examiner <i>Lynette J. Umeg-Evans</i> | Date Considered <i>7/26/2004</i> |

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